CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

QC ABSTRACT

Nameof Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15), BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Material	344.79 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	537.34 Cum	14	14	Concrete Cube Compressive Strength	-
3	M20	179.43 Cum	7	7	Concrete Cube Compressive Strength	-
4	Steel	50.43 Tonne	1	1	-	-
5	Steel	59.62 Tonne	1	1	-	-
6	Slab (100mm)	1459.79 Sqm	1	1	Concrete Core Compressive Strength	-
7	Slab (150mm)	78.12 Sqm	1	1	Concrete Core Compressive Strength	-
8	Slab (250mm)	128.40 Sqm	1	1	Concrete Core Compressive Strength	-
9	Paver Blocks	401.60 Sqm	1	1	Compressive Strength	-
10	M15	60.24 Cum	5	5	Concrete Cube Compressive Strength	-
11	M15	245.95Cum	8	8	Concrete Cube Compressive Strength	-
12	M15	57.83Cum	5	5	Concrete Cube Compressive Strength	-
13	Kerb	10446.00 Nos	4	4	Concrete Core Compressive Strength	-
14	M20	2.52 Cum	1	1	Concrete Cube Compressive Strength	-
15	M30	1218.00 Cum	28	28	Concrete Cube Compressive Strength	-
16	M25	74.61 Cum	5	5	Concrete Cube Compressive Strength	-
17	M25	258.22 Cum	7	7	Concrete Cube Compressive Strength	-
18	M25	18.61 Cum	3	3	Concrete Cube Compressive Strength	-
19	M25	9.58 Cum	2	2	Concrete Cube Compressive Strength	-
20	M20	48.57 Cum	5	5	Concrete Cube Compressive Strength	-
21	DLC	1269.13 Nos	2	2	Concrete Core Compressive Strength	-
22	Ceramic tiles	43.07 Sqm	1	1	-	-

31, 4th Cross Behind Sahara School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
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23	Steel railings	11 70 Sqm	1	1	-	-
24	CC Blocks 400x200x200mm	269 44 Sqm	1	1	Concrete Blocks Compressive Strength	-
25	CC Blocks 400x150x200mm	30 48 Sqm	1	1	Concrete Blocks Compressive Strength	-
26	CC Blocks 400x100x200mm	448 98 Sqm	1	1	Concrete Blocks Compressive Strength	-
27	GSB	230 90 Cum	1	1	Concrete Cube Compressive Strength	-
28	WMM	241 10 Cum	-	-	-	-
		Gradation	2	2	-	-
		AIV	2	2	-	-
		Shape Test	2	2	-	-
		Atterberg Limits	2	2	-	-
29	DBM	198.00 Cum	-	-	-	-
		Quality of Binder	1	2	-	-
		AIV	1	2	-	-
		Shape Test	1	2	-	-
		Gradation	1	2	-	-
		Specific Gravity	1	2	-	-
		Stability of Mix	1	2	-	-
		Bitumen content	1	2	-	-
30	BC	628 39 Cum	-	-	-	-
		Quality of Binder	2	2	-	-
		AIV	2	2	-	-
		Shape Test	2	2	-	-
		Gradation	2	2	-	-
		Specific Gravity	2	2	-	-
		Stability of Mix	3	3	-	-
		Bitumen content	3	3	-	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

CIVIL SHINE ENGINEERING CONSULTANTS Bangalore

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 16.03.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		February - 20222
DATE OF TESTING		14.03.2022 to 16.03.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Job No.: CSEC/BBMP/KLNR/QC/2021-22

Date : 16.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 16.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	182	1.21	1.21	98.79	95-100
20	8235	54.90	56.11	43.89	30-70
10	3265	21.77	77.88	22.12	10-35
4.75	2810	18.73	96.61	3.39	0-5

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 16.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 16.03.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	35	3.50	5.00	95.0	70-100
600 Micron	89	8.90	13.90	86.1	40-100
300 Micron	265	26.50	40.40	59.6	5-70
150 Micron	485	48.50	88.90	11.1	0-15

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 17.03.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 17.03.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.9	313.3	5.22	2075.00	Minimum required Compressive Strength of Individual Units $5.00N/mm^2$
2	Block 2	25.6	318.2	5.30	2133.33	
3	Block 3	26.8	320.5	5.34	2233.33	
4	Block 4	26.2	321.4	5.36	2183.33	

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Unnikrishnan Park, Cycle Track
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.145	388.6	17.27
2	04.04.2022	02.05.2022	8.156	368.2	16.36
3	04.04.2022	02.05.2022	8.138	376.5	16.73

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Unnikrishnan Park, Cycle Track
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.127	268.2	11.92
2	04.04.2022	11.04.2022	8.166	276.9	12.31
3	04.04.2022	11.04.2022	8.172	284.5	12.64

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Unnikrishnan Park, Cycle Track
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.168	375.2	16.68
2	04.04.2022	02.05.2022	8.152	369.3	16.41
3	04.04.2022	02.05.2022	8.146	385.6	17.14

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: St.Sri Sevalala Park
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.184	276.8	12.30
2	02.04.2022	09.04.2022	8.165	265.9	11.82
3	02.04.2022	09.04.2022	8.159	282.4	12.55

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: 1st B Cross Road from 1st Main Chikkabommasandra
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.180	385.6	17.14
2	04.04.2022	02.05.2022	8.165	369.3	16.41
3	04.04.2022	02.05.2022	8.146	376.2	16.72

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: 1st B Cross Road from 1st Main Chikkabommasandra
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.184	284.2	12.63
2	04.04.2022	11.04.2022	8.155	276.2	12.28
3	04.04.2022	11.04.2022	8.139	265.8	11.81

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೧೦೦

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.03.2022	02.04.2022	8.168	275.2	12.23
2	26.03.2022	02.04.2022	8.188	269.3	11.97
3	26.03.2022	02.04.2022	8.172	284.2	12.63

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.03.2022	02.04.2022	8.168	255.3	11.35
2	26.03.2022	02.04.2022	8.188	268.2	11.92
3	26.03.2022	02.04.2022	8.170	276.8	12.30

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 14.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2022	14.04.2022	8.136	268.2	11.92
2	07.04.2022	14.04.2022	8.155	276.2	12.28
3	07.04.2022	14.04.2022	8.146	256.3	11.39

Note:

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ಸಹಾಯಕ ಅಭಿಯಂತರ ಅಧಿಕಾರಿಯವರ ಕಛೇರಿ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2022	05.05.2022	8.184	388.9	17.28
2	07.04.2022	05.05.2022	8.169	376.2	16.72
3	07.04.2022	05.05.2022	8.155	365.3	16.24

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2022	05.05.2022	8.166	380.2	16.90
2	07.04.2022	05.05.2022	8.184	376.9	16.75
3	07.04.2022	05.05.2022	8.146	362.3	16.10

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 06.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Dhyana Mandira

Sample ID : Cement Concrete for Flooring

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	06.05.2022	8.174	389.6	17.32
2	08.04.2022	06.05.2022	8.165	365.2	16.23
3	08.04.2022	06.05.2022	8.156	372.5	16.56

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 15.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	15.04.2022	8.155	384.3	17.08
2	08.04.2022	15.04.2022	8.139	369.3	16.41
3	08.04.2022	15.04.2022	8.164	375.8	16.70

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 06.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	06.05.2022	8.169	384.2	17.08
2	08.04.2022	06.05.2022	8.175	376.9	16.75
3	08.04.2022	06.05.2022	8.185	368.2	16.36

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 06.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Flooring
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	06.05.2022	8.169	385.2	17.12
2	08.04.2022	06.05.2022	8.184	376.9	16.75
3	08.04.2022	06.05.2022	8.154	365.2	16.23

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Sevalal Park
Sample ID	: Cement Concrete for Column Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	29.03.2022	8.166	395.3	17.57
2	22.03.2022	29.03.2022	8.189	408.2	18.14
3	22.03.2022	29.03.2022	8.194	416.8	18.52

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Column Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.194	616.3	27.39
2	22.03.2022	19.04.2022	8.165	629.6	27.98
3	22.03.2022	19.04.2022	8.128	634.8	28.21

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Column Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.184	616.3	27.39
2	22.03.2022	19.04.2022	8.169	609.8	27.10
3	22.03.2022	19.04.2022	8.155	626.4	27.84

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Column Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.205	606.3	26.95
2	22.03.2022	19.04.2022	8.188	616.8	27.41
3	22.03.2022	19.04.2022	8.191	626.4	27.84

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 06.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Plinth Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2022	06.04.2022	8.194	389.6	17.32
2	30.03.2022	06.04.2022	8.166	408.2	18.14
3	30.03.2022	06.04.2022	8.158	416.4	18.51

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Plinth Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2022	27.04.2022	8.184	606.3	26.95
2	30.03.2022	27.04.2022	8.169	616.8	27.41
3	30.03.2022	27.04.2022	8.152	624.9	27.77

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Sevalal Park
Sample ID	: Cement Concrete for Column
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.168	606.3	26.95
2	04.04.2022	02.05.2022	8.184	619.8	27.55
3	04.04.2022	02.05.2022	8.196	625.6	27.80

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ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Column upto roof
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.194	389.6	17.32
2	05.04.2022	12.04.2022	8.168	399.3	17.75
3	05.04.2022	12.04.2022	8.182	408.1	18.14

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22

Date: 18.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete Chejja
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.169	356.6	15.85
2	11.04.2022	18.04.2022	8.146	335.8	14.92
3	11.04.2022	18.04.2022	8.152	349.2	15.52

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete for Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.04.2022	12.05.2022	8.198	606.3	26.95
2	14.04.2022	12.05.2022	8.165	624.8	27.77
3	14.04.2022	12.05.2022	8.146	616.9	27.42

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 14.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2022	14.05.2022	8.184	606.3	26.95
2	16.04.2022	14.05.2022	8.192	625.2	27.79
3	16.04.2022	14.05.2022	8.168	619.4	27.53

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 14.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2022	14.05.2022	8.194	606.3	26.95
2	16.04.2022	14.05.2022	8.156	616.2	27.39
3	16.04.2022	14.05.2022	8.138	628.9	27.95

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 23.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Roof Slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2022	23.04.2022	8.168	416.9	18.53
2	16.04.2022	23.04.2022	8.145	389.6	17.32
3	16.04.2022	23.04.2022	8.189	408.2	18.14

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 14.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Dhyana Mandira
Sample ID	: Cement Concrete for Roof Slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2022	14.05.2022	8.198	616.2	27.39
2	16.04.2022	14.05.2022	8.155	609.3	27.08
3	16.04.2022	14.05.2022	8.201	626.4	27.84

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Sample ID	: Cross Road 1 in Chikkabommasandra
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.168	512.3	22.77
2	05.04.2022	12.04.2022	8.184	505.8	22.48
3	05.04.2022	12.04.2022	8.146	489.6	21.76

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road 1 in Chikkabommasandra

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.185	712.3	31.66
2	05.04.2022	03.05.2022	8.169	725.6	32.25
3	05.04.2022	03.05.2022	8.146	708.9	31.51

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road 1 in Chikkabommasandra

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.195	500.9	22.26
2	05.04.2022	12.04.2022	8.148	512.3	22.77
3	05.04.2022	12.04.2022	8.124	489.6	21.76

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Sample ID	: Cross Road 1 in Chikkabommasandra
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.169	712.2	31.65
2	05.04.2022	03.05.2022	8.182	728.6	32.38
3	05.04.2022	03.05.2022	8.146	734.9	32.66

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 13.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road from 5th Cross Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2022	13.04.2022	8.198	505.2	22.45
2	06.04.2022	13.04.2022	8.184	516.3	22.95
3	06.04.2022	13.04.2022	8.164	488.9	21.73

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 31.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Chikkabommasandra Main Road from Ashwath Katte
Sample ID	: Cement Concrete Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.188	356.3	15.84
2	24.03.2022	31.03.2022	8.165	332.6	14.78
3	24.03.2022	31.03.2022	8.146	349.2	15.52

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 21.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Chikkabommasandra Main Road from Ashwath Katte
Sample ID	: Cement Concrete Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	21.04.2022	8.168	512.2	22.76
2	24.03.2022	21.04.2022	8.184	506.3	22.50
3	24.03.2022	21.04.2022	8.172	488.9	21.73

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Chikkabommasandra Main Road from Ashwath Katte
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	05.04.2022	8.184	336.3	14.95
2	29.03.2022	05.04.2022	8.169	345.2	15.34
3	29.03.2022	05.04.2022	8.155	356.8	15.86

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Chikkabommasandra Main Road from Ashwath Katte
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	05.04.2022	8.168	335.3	14.90
2	29.03.2022	05.04.2022	8.184	346.5	15.40
3	29.03.2022	05.04.2022	8.159	340.2	15.12

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Date: 30.03.2022

Job No.: CSEC/BBMP/KLNR/QC/2021-22

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	30.03.2022
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.326	2338.46	1.42	0.937	26.30	13.39	14.47	13.56	16.95
2	50.00	75.00	0.346	2349.55	1.50	0.946	26.90	13.70	14.80	14.00	17.50
3	50.00	77.00	0.362	2394.35	1.54	0.950	27.20	13.85	14.96	14.22	17.77

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	11.04.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	83.00	0.382	2343.99	1.66	0.963	25.30	12.89	13.92	13.41	16.76
2	50.00	85.00	0.395	2366.73	1.70	0.968	26.20	13.34	14.41	13.94	17.43
3	50.00	87.00	0.409	2394.28	1.74	0.972	27.50	14.01	15.13	14.70	18.38

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22

Date: 11.04.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	11.04.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	115.00	1.698	2320.95	1.28	0.922	85.30	13.41	14.48	13.35	16.69
2	90.00	117.00	1.754	2356.51	1.30	0.924	85.90	13.50	14.58	13.48	16.85
3	90.00	119.00	1.798	2375.02	1.32	0.927	87.20	13.71	14.80	13.72	17.15

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Unnikrishnan Park
Sample ID	: Cement Concrete for Copping
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.189	336.3	14.95
2	04.04.2022	11.04.2022	8.168	345.2	15.34
3	04.04.2022	11.04.2022	8.146	356.8	15.86

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Unnikrishnan Park
Sample ID	: Cement Concrete for Copping
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.188	336.3	14.95
2	04.04.2022	11.04.2022	8.169	345.2	15.34
3	04.04.2022	11.04.2022	8.146	352.8	15.68

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore
Location	: Unnukrishnan Park
Sample ID	: Cement Concrete for Copping
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS. 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.189	478.6	21.27
2	04.04.2022	02.05.2022	8.160	496.5	22.07
3	04.04.2022	02.05.2022	8.142	480.4	21.35

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 13.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Cycle Track Pathway
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2022	13.04.2022	8.165	330.6	14.69
2	06.04.2022	13.04.2022	8.159	342.8	15.24
3	06.04.2022	13.04.2022	8.148	356.3	15.84

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Vikranth
Authorsied Signatory

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 13.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Cycle Track Pathway

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2022	13.04.2022	8.169	352.3	15.66
2	06.04.2022	13.04.2022	8.184	346.8	15.41
3	06.04.2022	13.04.2022	8.152	340.9	15.15

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Authorsied Signatory

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: Toilet & Watchman Building in Sevalal Park
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	01.04.2022	8.169	336.3	14.95
2	25.03.2022	01.04.2022	8.188	342.8	15.24
3	25.03.2022	01.04.2022	8.146	353.9	15.73

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Job No.: CACE /SWM/NPRI/QC/2021-22 Date : 04.04.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 04.04.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2426	2610	26.1	73.9	60-80
11.2	2180	4790	47.9	52.1	40-60
4.75	1856	6646	66.5	33.5	25-40
2.36	1168	7814	78.1	21.9	15-30
0.600	525	8339	83.4	16.6	8-22
0.075	1298	9637	96.4	3.6	0-5

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

Aggregate Gradation Test

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	11.04.2022

Total Weight of Sample: 10000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	715	7.2	7.15	92.85	90 - 100	
19.00	1265	12.7	19.80	80.20	71 - 95	
13.20	1385	13.9	33.65	66.35	56 - 80	
4.75	2514	25.1	58.79	41.21	38 - 54	
2.36	1097	11.0	69.76	30.24	28 - 42	
0.300	1319	13.2	82.95	17.05	7 - 21	
0.075	1156	11.6	94.51	5.49	2 - 8	

Total Weight of Sample: 10000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	685	6.9	6.85	93.15	90 - 100	
19	1415	14.2	21.00	79.00	71 - 95	
13.2	1136	11.4	32.36	67.64	56 - 80	
4.75	2415	24.2	56.51	43.49	38 - 54	
2.360	1159	11.6	68.10	31.90	28 - 42	
0.300	1312	13.1	81.22	18.78	7 - 21	
0.075	1198	12.0	93.20	6.80	2 - 8	

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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JobNo: CSEC/BBMP/KLNR/QC/2021-22 Date : 11.04.2022

TEST RESULTS OF AGGREGATE SHAPE TEST
(Flakiness & Elongation)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963

Date of Test : 11.04.2022

Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	10.90	12.90	23.80	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	11.50	13.20	24.70	

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Job No: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON PAVING BITUMEN

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	11.04.2022
Type of Mix	Dense Graded Bituminous Macadam , VG 30
Source of Location	Hot Mix Plant

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS.73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	51	Min 45
2	Softening point, 0C	48	Min 47
3	Ductility at 250C, cm	99	Min40
4	Flash Point, 0C	226	Min 220

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 20.04.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	20.04.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.86	9.64	9 Kn (min)
2	Marshal flow, mm	3.45	3.28	2 – 4
3	Percent air voids in Mineral Aggregate	14.74	13.42	13 – 15
4	Voids in Compacted Mix	3.89	3.92	3 – 6
5	Percent Voids filled with Bitumen	67.91	69.52	65 - 75
6	Density, g/cc	2.25	2.27	--

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 12.04.2022

Aggregate Gradation Test

IS : 2386 Part I

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	12.04.2022

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	418	8.36	8.36	91.64	90 - 100	
9.5	486	9.72	18.08	81.92	70 - 88	
4.75	639	12.78	30.86	69.14	53 - 71	
2.36	680	13.60	44.46	55.54	42 - 58	
1.18	532	10.64	55.10	44.90	34 - 48	
0.600	544	10.88	65.98	34.02	26 - 38	
0.300	482	9.64	75.62	24.38	18 - 28	
0.150	335	6.70	82.32	17.68	12 - 20	
0.075	489	9.78	92.10	7.90	4 - 10	

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	420	8.40	8.40	91.60	90 - 100	
9.5	546	10.92	19.32	80.68	70 - 88	
4.75	689	13.78	33.10	66.90	53 - 71	
2.36	536	10.72	43.82	56.18	42 - 58	
1.18	550	11.00	54.82	45.18	34 - 48	
0.600	549	10.98	65.80	34.20	26 - 38	
0.300	632	12.64	78.44	21.56	18 - 28	
0.150	189	3.78	82.22	17.78	12 - 20	
0.075	482	9.64	91.86	8.14	4 - 10	

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.04.2021

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	12.04.2021

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	50	Min 45
2	Softening point, ^{0}C	53	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	270	Min. 220

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 14.04.2021

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP,
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	12.04.2021 to 14.04.2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2022	2024	2026	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1267	1269	1271	
4	Weight of saturated surface dry aggregate in air	W_3 g	2018	2020	2022	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	751	751	751	
6	Weight of oven dried aggregate	W_4 g	2011	2012	2013	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.678	2.679	2.680	2.679
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.703	2.708	2.713	2.708
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.35%	0.40%	0.45%	0.40%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 21.04.20..

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	Sri. K. Lakshmi Narayana Reddy, Contractor, Bangalore.
NAME OF THE WORK	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
LOCATION	1st B Cross Road from 1st Main Chikkabommasandra
DATE OF TESTING	21.04.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	473	472
3. Weight of Asphalt and Mineral matter Extracted, g	27	28
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g (corrected)	27	28
7. Bitumen content in %	5.40	5.60
8. Average	5.50	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	15.2	15.2	3.2	96.8	90 - 100
9.5	62.8	78	16.5	83.5	70 - 88
4.75	93.4	171.4	36.2	63.8	53 - 71
2.36	42.5	213.9	45.2	54.8	42 - 58
1.18	33.6	247.5	52.3	47.7	34 - 48
0.600	59.2	306.7	64.8	35.2	26 - 38
0.300	40.6	347.3	73.4	26.6	18 - 28
0.150	34.2	381.5	80.7	19.3	12 - 20
0.075	46.5	428	90.5	9.5	4 - 10

SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.5	13.5	2.9	97.1	90 - 100
9.5	62.8	76.3	16.2	83.8	70 - 88
4.75	93.4	169.7	36.0	64.0	53 - 71
2.36	46.5	216.2	45.8	54.2	42 - 58
1.18	35.8	252	53.4	46.6	34 - 48
0.600	52.6	304.6	64.5	35.5	26 - 38
0.300	43.6	348.2	73.8	26.2	18 - 28
0.150	33.8	382	80.9	19.1	12 - 20
0.075	59.2	441.2	93.5	6.5	4 - 10

Note:

- *This test report should not be reproduced except in full, without written approval of the laboratory*
- The results indicated above are based on the tests carried out on the samples collected at the site.
- Any Query regarding the report must be reported within 30 days from the date of testing

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

31, 4th Cross, Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 25.04.2022

TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

*Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

*Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 20.04.2022 to 25.04.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	46.5	47.20	Average 47, indivisual minimum 44 N/mm^2
2	47.6		
3	47.2		
4	47.9		
5	46.8		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

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III. STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
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For CIVIL-SHINE ENGINEERING CONSULTANTS

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